

$$\sin A = \frac{7}{25} \frac{o}{h}$$

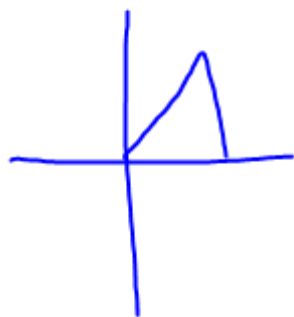
$$\cos A = \frac{24}{25}$$

$$\tan A = \frac{7}{24}$$

$$\sin B = \frac{24}{25}$$

$$\cos B = \frac{7}{25} \frac{o}{h}$$

$$\tan B = \frac{24}{7}$$



$$A + B = 90^\circ$$

$$B = 90 - A$$

$$\sin A = \cos B$$

$$\sin A = \cos(90 - A)$$

Cofunctions

$$\sin A = \cos(90 - A)$$

$$\cos A = \sin(90 - A)$$

$$\tan A = \cot(90 - A)$$

$$\csc A = \sec(90 - A)$$

$$\sec A = \csc(90 - A)$$

$$\cot A = \tan(90 - A)$$

Try

① Write each function in terms of its cofunction

(a) $\cos 52^\circ = \sin(38)$ (b) $\tan 71 = \cot 19$ (c) $\sec 24 = \csc 66$

(2) If $\cos(\theta + 4) = \sin(3\theta + 2)$, find θ

$$\theta + 4 + 3\theta + 2 = 90$$

$$4\theta + 6 = 90$$

$$\frac{4\theta}{4} = \frac{84}{4}$$

$$\theta = 21$$

(3) If $\tan(2\theta - 18) = \cot(\theta + 18)$, find θ

$$\theta = 30^\circ$$

$$2\theta - 18 + \theta + 18 = 90$$

$$3\theta = 90$$

$$\boxed{\theta = 30}$$

$$\sin(\theta+4) = \cos(3\theta+2) \quad \text{vs.} \quad \sin(\theta+4) = \frac{1}{\cos(3\theta+2)}$$

$$\theta+4+3\theta+2=90$$

$$\theta+4=3\theta+2$$

Sect. 2.1

5-10, 25, 45-52 (No Calc)

Turn in your HW from Thurs. → Re

1.1
1.2
1.3
1.4

SHH